

A-Core Container

Moldova user-side energy storage peak shaving and valley filling project



Overview

Does overloaded power grid affect peak shaving and valley filling?

The decreasing proportion of the peak-valley difference between the power grid and users' electricity purchasing costs are both lower than that in the base case when the load reduces by 20%. Thus, the dynamic price mechanism proposed in this study exhibits more obvious effects on peak shaving and valley filling when the power grid is overloaded.

Do energy storage systems achieve the expected peak-shaving and valley-filling effect?

Abstract: In order to make the energy storage system achieve the expected peak-shaving and valley-filling effect, an energy-storage peak-shaving scheduling strategy considering the improvement goal of peak-valley difference is proposed.

Can flexible load participate in peak shaving and valley filling?

(2) A dynamic price incentive mechanism for peak shaving and valley filling is proposed in this study. The dynamic price mechanism can thoroughly explore the potential of the flexible load in participating in peak shaving and valley filling compared with the conventional fixed price mechanism.

Does constant power control improve peak shaving and valley filling?

Finally, taking the actual load data of a certain area as an example, the advantages and disadvantages of this strategy and the constant power control strategy are compared through simulation, and it is verified that this strategy has a better effect of peak shaving and valley filling. Conferences > 2021 11th International Confe.

How is peak-shaving and valley-filling calculated?

First, according to the load curve in the dispatch day, the baseline of peak-shaving and valley-filling during peak-shaving and valley filling is calculated

under the constraint conditions of peak-valley difference improvement target value, grid load, battery power, battery capacity, etc.

How does Guangdong power grid use data for price adjustment?

The data for basic power consumption scenarios is also used as a reference for price adjustment by the price-setting party in the peak-shaving scenario. Guangdong power grid sets prices according to peak, normal and valley power consumption periods, with a ratio of 1.7:1.0:0.38.

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